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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|----------------|----------------------|---------------------|------------------|
| 10/576,175 | 04/19/2006 | Graeme Bilbe | 33440-US-PCT | 7229 |
| 1095 NOVARTIS | 7590 03/25/200 | 8 | EXAMINER | |
| CORPORATE INTELLECTUAL PROPERTY ONE HEALTH PLAZA 104/3 | | | JAVANMARD, SAHAR | |
| EAST HANOVER, NJ 07936-1080 | | | ART UNIT | PAPER NUMBER |
| | | | 1617 | |
| | | | | |
| | | | MAIL DATE | DELIVERY MODE |
| | | | 03/25/2008 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | |
|---|---|--|--|--|--|
| | 10/576,175 | BILBE, GRAEME | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | SAHAR JAVANMARD | 1617 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| Responsive to communication(s) filed on <u>04 Fe</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E | action is non-final. nce except for formal matters, pro | | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access | r election requirement. | Examiner. | | | |
| Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Explanation is objected to by the Explanation is objected. | drawing(s) be held in abeyance. See on is required if the drawing(s) is obj | e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 04/19/06. | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate | | | |

DETAILED ACTION

Status of the Claims

This Office Action is in response to Applicant's Restriction Requirement remarks filed on February 4, 2008. Claim(s) 1-8 are pending. Claim(s) 9-10 have been cancelled. Applicant's election of Group I drawn to claims 1-8 drawn to methods for the treatment and/or prevention of neurological and vascular disorders related to beta-amyloid generation and/or aggregation comprising administering an inhibitor and a species election of compound 4-Methyl-N-[3-(4-methyl-imidazol-1-yl)-5-trifluoromethyl-phenyl]-3-(4-pyridin-3-yl-pyrimidin-2-ylamino)-benzamide without traverse of the restriction requirement in the reply is acknowledged. The requirement is deemed proper and is therefore made FINAL. Claim(s) 1-8 are examined herein insofar as they read on the elected invention and species.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, first paragraph, for scope of enablement because the specification, while being enabling for the treatment of neurological and vascular disorders related to beta-amyloid generation and/or

aggregation, does not reasonably provide enablement for the prevention of neurological

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and vascular disorders related to beta-amyloid generation and/or aggregation as recited

in these claims.

The instant claims are drawn to a method for the <u>prevention</u> of neurological and

vascular disorders related to beta-amyloid generation and/or aggregation. The instant

specification fails to provide information that would allow the skilled artisan to practice

the instant invention. Attention is directed to In re Wands, 8 USPQ2d 1400 (CAFC

1988) at 1404 where the court set forth the eight factors to consider when assessing if a

disclosure would have required undue experimentation. Citing Ex parte Forman, 230

USPQ 546 (BdApls 1986) at 547 the court recited eight factors:

(1) the nature of the invention; (2) the state of the prior art; (3) the relative skill of those

in the art; (4) the predictability or unpredictability of the art; (5) the breadth of the claims;

(6) the amount of direction or guidance presented; (7) the presence or absence of

working examples; and (8) the quantity of experimentation necessary.

Nature of the invention:

The instant invention pertains to a method for the <u>prevention</u> of neurological and

vascular disorders related to beta-amyloid generation and/or aggregation.

The state of the prior art:

The skilled artisan would view that the prevention of one or more symptoms of

neurological and vascular disorders related to beta-amyloid generation and/or

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aggregation totally, absolutely, or permanently, is highly unlikely, since one cannot guarantee that neurological and vascular disorders will always be prevented.

The relative skill of those in the art:

The relative skill of those in the art is very high.

The predictability or lack thereof in the art:

The skilled artisan would view that the treatment to prevent neurological and vascular disorders related to beta-amyloid generation and/or aggregation, absolutely, or permanently is highly unpredictable.

The amount of direction or guidance presented and the presence or absence of working examples:

In the instant case, no working examples are presented in the specification as filed showing how to prevent neurological and vascular disorders related to beta-amyloid generation and/or aggregation totally, absolutely, or permanently. Note that lack of a working example, is a critical factor to be considered, especially in a case involving an unpredictable and undeveloped art. See MPEP 2164.

Genentech, Inc. v. Novo Nordisk, 108 F.3d at 1366, states that "a patent is not a hunting license. It is not a reward for search, but compensation for its successful conclusion" and "[p]atent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable".

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Therefore, in view of the *Wands* factors, e.g., the amount of direction or guidance provided, absence of working examples, and the predictability of the art discussed above, to practice the claimed invention herein, a person of skill in the art would have to engage in <u>undue experimentation</u> to test the combination in the instant claims whether preventing neurological and vascular disorders related to beta-amyloid generation and/or aggregation totally, absolutely, or permanently.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Netzer et al. (WO 03/057165 A2).

Netzer teaches methods and compositions for treating amyloid- β -related disorder such as Alzheimer's disease via administration of compounds that modulate, e.g. inhibit, ATP-dependent enzymatic activity such as γ -secretase activity (page 3, lines 28-31). In an embodiment, the enzyme activity is a kinase activity. The compound binds a kinase enzyme exhibiting an ATP-dependent enzymatic activity. In a specific

embodiment the kinase is a tyrosine kinase namely, Abl kinase, BCR-Abl kinase, ARG kinase, src kinase, c-kit, platelet-derived growth factor receptor (PDGFR) (page 43, lines 4-11; claims 1, 33, 37, 38, 102, 103), meeting the limitations of claims 1 and 6-7.

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Netzer teaches that a treatment regimen can be administered to an elderly person, e.g., age 65 or older. The composition is administered daily with doses ranging from $10\mu g/day$ to a maximum of $800\mu g/day$ (page 64, lines 10-20), meeting the limitations of claim 5.

Conclusion

Claims 1-8 are not allowed.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sahar Javanmard whose telephone number is (571) 270-3280. The examiner can normally be reached on 8 AM-5 PM MON-FRI (EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/S. J./

Examiner, Art Unit 1617

/SREENI PADMANABHAN/

Supervisory Patent Examiner, Art Unit 1617